

METHOD AND SYSTEM FOR TREATMENT OF NEUROLOGICAL DISEASES OF THE CENTRAL NERVOUS SYSTEM

ABSTRACT

The present invention is directed to methods and systems for the treatment of inborn genetic errors or other defects that cause deficiencies of active enzymes or proteins within the cells of the central nervous system. Such methods and systems generally comprise an implantable catheter system designed for the chronic delivery of specially formulated proteins to intrathecal, intracerebroventricular, and/or intraparenchymal regions of the central nervous system. The invention has application in the neuropathic aspects of the broad category of lysosomal storage diseases. These genetic based diseases are the result of insufficient enzyme activity to catabolize specific substances, which thereby accumulate in the cellular lysosomes.